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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/053,195	01/16/2002	James L. Gaddy	CEL23-26AUSA	4080
75	10/09/2003		EXAM	INER
Mary E. Bak		LILLING, HERBERT J		
Spring House Corporate Center Box 457			ART UNIT	PAPER NUMBER
Spring House,	PA 19477	1651		
			DATE MAILED: 10/09/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	(0)	Application No.	Applicant(s)			
Office Action Summary		10/053,195	GADDY ET AL.			
		Examiner	Art Unit			
		HERBERT J LILLING	1651			
	this communication a	ppears on the cover sheet with t				
Period for Reply						
THE MAILING DATE OF TH  - Extensions of time may be available u after SIX (6) MONTHS from the mailin  - If the period for reply specified above  - If NO period for reply is specified abov  - Failure to reply within the set or exten	IS COMMUNICATION nder the provisions of 37 CFR of date of this communication. Is less than thirty (30) days, a ree, the maximum statutory period period for reply will, by statution three months after the mail	<ol> <li>1.136(a). In no event, however, may a reply</li> <li>eply within the statutory minimum of thirty (30)</li> </ol>	be timely filed  b) days will be considered timely. from the mailing date of this communication.  DONED (35 U.S.C. § 133).			
1)⊠ Responsive to comm	unication(s) filed on <u>28</u>	5 August 2003 .				
2a)☐ This action is <b>FINAL</b> .	2b)⊠ 7	This action is non-final.				
			s, prosecution as to the merits is			
Disposition of Claims	·	er <i>Ex parte Quayle</i> , 1935 C.D. 1	11, 453 O.G. 213.			
4)⊠ Claim(s) <u>1-14 and 24-28</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1, 7, 11-14, 24 and 26-28</u> is/are rejected.						
	7)⊠ Claim(s) <u>2-6,8-10 and 25</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers	octed to by the Evemin	or				
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
• • • • • • • • • • • • • • • • • • • •	• •	-,,	· ·			
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119	and 120					
		gn priority under 35 U.S.C. § 1	19(a)-(d) or (f).			
a)	☐ None of:					
1. Certified copies	of the priority docume	nts have been received.				
2. Certified copies	of the priority docume	nts have been received in Appli	ication No			
application fr	om the International E	iority documents have been rec Bureau (PCT Rule 17.2(a)). st of the certified copies not rec	•			
			19(e) (to a provisional application).			
·	=	rovisional application has been stic priority under 35 U.S.C. §§				
Attachment(s)						
Notice of References Cited (PTO-4     Notice of Draftsperson's Patent Dr     Information Disclosure Statement(	awing Review (PTO-948)	Notice of Infor	mary (PTO-413) Paper No(s) mal Patent Application (PTO-152) .			

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1. Receipt is acknowledged of the response filed August 25, 2003.

2. Claims 1-14 and 24-28 are now pending in this instant application.

Claims 15-23 have been cancelled.

- 3. Applicant has elected without traverse Invention I, claims 1-14 and new claims 24-28 and the species election with the gaseous mixture containing carbon monoxide and carbon dioxide with hydrogen gas and the acetogenic bacteria, Costridium bacteria.
- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 7, 11-14, 24 and 26-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giddy, U.S. 6,340,581 alone or further in view of Ricker et al.

The reference, Giddy, U.S. 6,340,581, teaches the production of acetic acid by fermentation of a nutrient in the presence of Clostridium in the presence of a mixture of gases as claimed as disclosed by the examples. The reference also teaches that the employment of a solvent comprising amines, see column 5, lines 46-47 as well as recycling, see column 6, lines 8-10. It would have been prima facie obvious to one of ordinary skilled in the art to select the amine for the extraction of acetic acid from the aqueous mixture in view of the teachings of Ricker et al to obtain the advantages of having a higher equilibrium distribution coefficient for the extracton of acetic acid from the fermentation broth.

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5. Claim 2-6, 8-10 and 25 are objected to as being dependent upon a

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rejected base claim, but would be allowable if rewritten in independent form including all

of the limitations of the base claim and any intervening claims.

6. No anticipatory art has been found for the hydrogen sulfide addition and

removal, claims 2-6 and 8 or the specific immiscible solvent of claims 9-10 and 25.

7. Applicant is reminded that upon the cancellation of claims to a non-elected

invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one

or more of the currently named inventors is no longer an inventor of at least one claim

remaining in the application. Any amendment of inventorship must be accompanied by

a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Examiner Lilling whose telephone number is** (703) 308-2034 and **Fax Number** is for applications **Before Final** (703) 872-9306 and **After Final** for applications is 703-872-9307 or SPE Michael Wityshyn whose telephone number is (703) 308-4743. Examiner can be reached Monday-Thursday from about 5:30 A.M. to about 3:00 P.M. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is

(703) 308-0196.

H.J.Lilling: HJL (703) 308-2034 Art Unit <u>1651</u> October 08, 2003

Dr. Herbert J. Lilling Primary Examiner

Group 1600 Art Unit 1651